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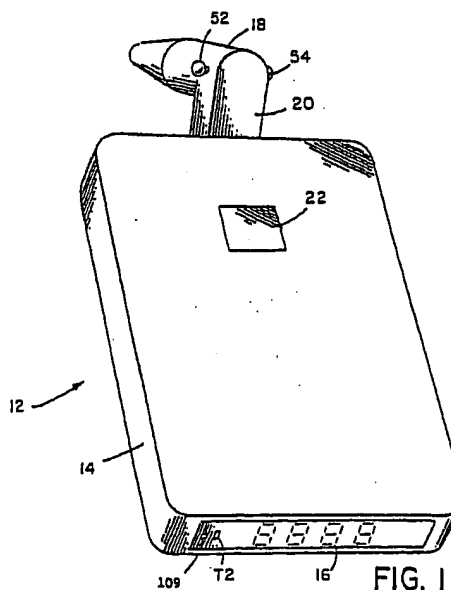
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(54) Radiation detector for tympanic temperature measurement

(57) Tympanic temperature measurements are obtained from the output of a thermopile (28) mounted in an extension (18) from a housing (14). The housing (14) has a temperature display (16) thereon and supports the electronics for responding to sensed radiation. A disposable plastic sheet (42) taken from a tape of such sheets stretches over the end of the extension (18) between side posts (52,54). The thermopile (28) is mounted in a highly conductive thermal mass (34,36) which includes waveguide tube (32). A low conductivity gaseous environment surrounding the thermopile (28) extends through the tube (32). The electronics include an EEPROM (100) in which both calibration and characterisation information may be stored during a calibration procedure through an optical coupling (104). A capacitor (C1) and transistor (T1) associated with a switch (22) form a simple watchdog circuit.



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EUROPEAN SEARCH REPORT

Application Number
EP 96 20 3169.6

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| The present search report has been drawn up for all claims | | | |
| Place of search STOCKHOLM | | Date of completion of the search 4 February 1997 | Examiner LARS JAKOBSSON |
| CATEGORY OF CITED DOCUMENTS | | T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application I : document cited for other reasons & : member of the same patent family, corresponding document | |
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EUROPEAN SEARCH REPORT

Application Number
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| Place of search | | Date of completion of the search | Examiner |
| STOCKHOLM | | 4 February 1997 | LARS JAKOBSSON |
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